






School of Computer Science & Engineering

In association with

International Relations and Research Collaboration

Organises

Prime Lecture Series on

Recent Trend in Real Time 5G-IoT Communication



Prof. Nishu Gupta
 Department of Electronic Systems, Faculty of Information Technology
 and Electrical Engineering, Norwegian University of Science and
 Technology (NTNU) in Gjøvik, Norway



Date: 9th February, 2024

Mode: Offline

Time: 08:45 AM to 10:00AM

www.reva.edu.in

International Relations and Research Collaborations in association with School of Computer Science and Engineering, REVA University, organized a Prime Lecture on “Recent Trend in Real Time 5G-IoT Communication” on 09th ^{Feb} January, 2024. The event featured Dr. Nishu Gupta, Faculty of Information Technology and Electrical Engineering, at Norwegian University of Science and

Technology (NTNU) in Gjøvik, Norway. This expert talk was is benefitted to students and faculty members.



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Organized
"Prime Lecture Series"

Program Report

International Relations and Research Collaborations in association with **School of Computer Science and Engineering, REVA University**, organized a Prime Lecture on "**Recent Trend in Real Time 5G-IoT Communication**" on 09th ^{Feb} ~~January~~, 2024. The event featured **Dr. Nishu Gupta, Faculty of Information Technology and Electrical Engineering, at Norwegian University of Science and Technology (NTNU) in Gjøvik, Norway**. This expert talk was is benefitted to students and faculty members.

About the speaker and their institute

Dr. Nishu Gupta is a Senior Member, IEEE. Currently he is holding a position of Postdoctoral Fellow in the Smart Wireless Systems Group, Department of Electronic Systems, Faculty of Information Technology and Electrical Engineering, at Norwegian University of Science and Technology (NTNU) in Gjøvik, Norway. He has worked as Research Associate in the Smart Living Lab, a joint project of The Swiss Federal Institute of Technology Lausanne (EPFL), School of Engineering and Architecture of Fribourg (HEIA-FR), and University of Fribourg (UniFR) in the Digitalization and Information Systems Research Group, Department of Informatics, University of Fribourg, Switzerland.

Flow of program

The event begins with a formal welcome from the host or master of ceremonies (MC) Prof. Bhabatarini. The MC introduces the event's purpose, agenda, and important announcements. Ashwin Kumar U M, Director of School of Computer Science and Engineering address the gathering with his welcome speech and highlighted the importance of this kind of lecture sessions. Dr. Pasupuleti Visweswara Rao, Director of IRRC address the gathering with agenda and purpose of IRRC. And highlighted that IRRC is working towards the benefit of the students and faculty of REVA University related to international collaborations by conducting various activities.

MC introduces the Speaker of the event Dr. Nishu Gupta and invites him to address the gathering. Dr. Nishu Gupta felicitated by Director of School of CSE, Director of IRRC and Pro Vice Chancellor.

Dr. R C Biradar, Pro Vice Chancellor encourages the students to attend this kind of events and also enlightened how recent trends and technologies is important to build future India.

Dr. Nishu Gupta delivers his thoughts and insights about the Recent Trend in Real Time 5G-IoT Communication followed by question answer session.

About the talk and other discussions

The integration of 5G technology with the Internet of Things (IoT) has been an area of significant interest and development. One of the most significant advantages of 5G technology is its low latency, which is essential for real-time communication in IoT applications such as autonomous vehicles, industrial automation, and remote surgery. Recent trends focus on leveraging this low latency to enable instantaneous data transfer and decision-making in IoT systems. With the proliferation of IoT devices generating massive amounts of data, there's a growing need to process data closer to the source to reduce latency and bandwidth usage. Edge computing, combined with 5G networks, allows for real-time data processing and analysis at the edge of the network, enabling faster response times and more efficient use of network resources. 5G networks support network slicing, which enables the creation of multiple virtual networks on a single physical infrastructure. This capability allows IoT applications to have dedicated network slices tailored to their specific requirements, such as bandwidth, latency, and security, ensuring optimal performance for real-time communication. 5G technology enables connectivity for a massive number of IoT devices, ranging from sensors and actuators to wearable devices and smart appliances. Recent trends in real-time 5G-IoT communication focus on efficiently managing and coordinating communication among these vast numbers of devices while ensuring low latency and high reliability. AI and machine learning algorithms play a crucial role in optimizing real-time 5G-IoT communication. These technologies enable predictive analytics, anomaly detection, and intelligent decision-making, enhancing the efficiency, reliability, and security of IoT systems operating on 5G networks.

Overall, the recent trend in real-time 5G-IoT communication revolves around harnessing the capabilities of 5G networks to enable low-latency, high-reliability communication for a wide range of IoT applications, while addressing challenges related to security, scalability, and interoperability.

Speaker also shares the information related to internship opportunity for the students in his university and post doc opportunity for the faculty members.

Total no. of attendees

85 students attended the program.

Outcome of program

The event achieves its intended purpose i.e. increasing awareness about the recent trend in 5G technology.

Dr. Ashwin Kumar U M welcoming the gathering



Felicitation of Guest Speaker by the dignitaries



Dr. Nishu Gupta Sharing his insights about the 5G technology with the Internet of Things (IoT)

Attendees were satisfied, enjoyed the session, found it valuable, and potentially made meaningful connections with other attendees and speakers. Also looking for the future opportunity related to the shared domain in terms of project or internship.

Photos from the program



Dr. Nishu Gupta with Director of School of CSE, Director of IRRC, Professor of Emirates and IRRC co Ordinator , School of CSE.



Bengaluru, Karnataka, India
Reva Institute of Technology and Management, Srinivasa Nagar, Bengaluru, Sathanur,
Karnataka 560064, India
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Long 77.634727°
09/02/24 09:07 AM GMT +05:30

Attendance sheet

			SURYA Gold
Recent Trend in Real Time 5G-IOT			Page No. _____
Communication by Dr. Nisha Gupta			
①	TAVAN HK	R23EH090	AI&DS 'B'
②	NIKHIL M	R23EH085	AI&DS 'B'
③	P. PRITAM	R23ET027	CSE (IOT) 'A'
④	Ashik Hebbar-K.V	R23ET008	CSE (IOT) 'A'
⑤	Prayush Shah	R23ET029	CSEC (OT) 'A'
⑥	Vishnu V	R23ET051	CSE (IOT) 'A'
⑦	E. Sri Dhakshan	R23ET013	CSE (IOT) 'A'
⑧	Jayasriyak	R23ET016	CSE (IOT) 'A'
⑨	Venuri Venkata Shashadth	R23ET047	CSE (IOT) 'A'
⑩	MARTIN KARI	R23ET017	CSE (IOT) 'A'
⑪	Syed Nauman	R23ET044	CSE (IOT) 'A'
⑫	Akshay Kumar	R23ET003	CSE (IOT) 'A'
⑬	KUNTLA ANURAG REDDY	R23ET019	CSE (IOT) 'A'
⑭	B. Bhaswanth	R23ET009	CSE (IOT) 'A'
⑮	P. Arjan Reddy	R23ET006	CSE (IOT) 'A'
⑯	Nidhin N	R23EH081	AI&DS 'B'
⑰	Manjunath Devaraj	R23EH066	AI&DS 'B'
⑱	Nandan Gowda P	R23EH081	AI&DS 'B'
⑲	Sabapathi . F	R23EH110	AI&DS 'B'
⑳	Rajal . A	R23EH099	AI&DS 'B'
㉑	PEERANA BHANUPRACASHA	R23EH095	AI&DS 'B'
㉒	Musthaq	R23EH118	AI&DS 'B'
㉓	Shiyas CK	R23ET054	IOT 'A'
㉔	Yash Kaushik	R23ET062	IOT 'A'
㉕	Vasudev Thampi	R23ET046	IOT 'A'
㉖	Suryaansh S	R23ET043	IOT 'A'
㉗	Marekandehuragouda	R23EH1071	AI&DS 'B'
㉘	Rohith L	R23EH106	AI&DS 'B'
㉙	Nandan P	R23EH082	AI&DS 'B'
㉚	Marekprabhu	R23EH065	AI&DS 'B'
㉛	Mounish M	R23EH097	AI&DS 'B'
㉜	Ravi D.N	R23EH094	AI&DS 'B'
㉝	Nivas BU	R23ET023	CSE (IOT)

34	Nagarajun DP	R23E1023	CSE (TOT)	67
35	Chander N	R23E1010	CSE (TOT)	68
36	PN SHREYAS	R23E1026	CSE (TOT)	69
37	Anvitha Shetty	R23E1005	CSE (TOT)	70
38	Asha Nidhi Vg	R23E1024	CSE (TOT)	71
39	Aditi Biradar	R23E1002	CSE (TOT)	72
40	Khyati	R23E1018	CSE (TOT)	73
41	Bharishya	R23E1017	CSE (TOT)	74
42	Prakhyath	R23E1091	AIDS - 'B'	
43	Nicarga Bhal	R23E1086	AIDS - 'B'	
44	Maya RI	R23E1070	AIDS - 'B'	
45	J. Jagan	R23E1066	TOT	
46	K. Navya	R23E1057	TOT	
47	Spandana	R23E1042	TOT	
48	Madumitha	R23E1020	TOT	
49	Pranjali	R23E1031	TOT	
50	Sheetal R	R23E1039	TOT	
51	Panya B J	R23E1034	TOT	
52	Shravyank Prabhu	R23E1040	TOT	
53	Vikas	R23E1049	TOT	
54	Navanith S	R23E1084	AIDS - B	
55	Vaun Tya	R23E1068	AIDS - B	
56	Satish	R23E1116	AIDS - B	
57	Pritya VM	R23E1096	AIDS - B	
58	Mamathi Karthiyatniks	R23E1062	AIDS - B	
59	Manoharmayum Harsha	R23E1069	AIDS - B	
60	Rishi Raj	R23E1036	TOT	
61	Shashwax	R23E1038	TOT	
62	Punit Kumar PS	R23E1033	TOT	
63	Rajkumar Math	R23E1100	AIDS - B	
64	Nithya Appajgal	R23E1088	AIDS - B	
65	SAI TARUN Tej	R23E1113	AIDS - B	
66	J. MOHAMMED KHIZAR	R23E1074	AIDS - B	

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67	SAQIB AHMED K	R23EH115	AIDS-B
68	Nameer Saniya	R23EH80	AIDS-B
69	Meghana V	R23EH072	AIDS-B
70	SAGARTIKA D.S.	R23EH111	AIDS-B
71	PRANATHI R.N.	R23EH092	AIDS-B
72	SHARMILY H	R23EH120	AIDS-B
73	RAKSHITHA PATIL	R23EH102	AIDS-B
74	Prashamsa S	R23EH093	AIDS-B
75	Divya	R23EH055	IoT-A
76	RIYA	R23EH037	IoT-A
77	Vidhya S	R23EH048	IoT-A
78	MR TEJASWINI	R23EH061	AI & DS - B
79	SANYI R	R23EH114	AIDS-B
80	Monisha G. Naik	R23EH022	IoT-A
81	Nishmitha	R23EH056	IoT-A
82	Kundana Siri	R23EH015	IoT-A
83	Aachitha	R23EH014	IoT-A
84	Roshni Ghosh	R23EH108	2 AI & DS - B
85	Preeti Sharma	R23EH109	2 AI & DS - B


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